Amendments to the Claims/Listing of Claims:

Please amend claims 38, 39 and 40, cancel claims 3 and 7, and add new claims 43-44 as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Original) An adhesive composition comprising at least one maleimidecontaining monomer, optionally at least one cure initiator, and a plurality of spacers constructed from one or more organic polymers.
- (Original) The adhesive composition according to claim 1, wherein said spacers are substantially spherical.
 - (Cancelled)
- (Original) The adhesive composition according to claim 3, wherein said spacers have a particle size in the range of about 0.1 mils up to about 15 mils.
- (Original) The adhesive composition according to claim 1, wherein said organic polymers are substantially uncrosslinked.
- (Original) The adhesive composition according to claim 1, wherein said organic polymers are polymerization products of optionally substituted ethylenically unsaturated monomers.
 - 7. (Cancelled)

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- (Original) The adhesive composition according to claim 1, wherein said organic
 polymers are polymerization or copolymerization products of (meth)acrylates.
 - (Original) The adhesive composition according to claim 1, wherein said organic polymer is polymethylmethacrylate.
 - (Original) The adhesive composition according to claim 9, wherein said polymethylmethacrylate has a molecular weight in the range of about 50,000 up to about 1,500,000.
 - (Original) The adhesive composition according to claim 9, wherein said
 polymethylmethacrylate has a molecular weight in the range of about 400,000 up to about
 500,000.
 - (Original) The adhesive composition according to claim 1, wherein said maleimide-containing monomer has the following structure:

wherein:

m ≈ 1-6,

each R is independently selected from hydrogen or lower alkyl, and X is a monovalent moiety or a multivalent linking moiety.

(Original) An adhesive composition according to claim 12, wherein said resonovalent moiety or multivalent linking moiety is selected from

 straight or branched chain alkyl, alkylene, oxyaikylene, alkenyl, alkenylene, oxyalkenylene, ester, or polyester, optionally containing

alkenylene, oxyalkenylene, ester, or polyester, optionally containing substituents selected from hydroxy, alkoxy, carboxy, nitrile, cycloalkyl or cycloalkenyl,

(II) siloxanes having the structure:

wherein

each R is independently defined as above, and each R' is independently selected from hydrogen, lower alkyl or aryl, m' falls in the range of 1 up to 10, m' falls in the range of 1 up to 10, and of falls in the range of 1 up to 50,

(III) polyalkylene oxides having the structure:

-[(CR_2)₁-O-]_q-(CR_2)_s- or

[(CR₂)_r-O-]_q-(CR₂)_s-

wherein each R is independently as defined above, r falls in the range of 1 up to 10, s falls in the range of 1 up to 10, and d' is as defined above,

(IV) aromatic moieties having the structure:

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wherein each R is independently as defined above, t falls in the range of 2 up to 10, u is 1, 2 or 3, and Ar is as defined above, or

wherein

Z is O or NR, wherein R is hydrogen or lower alkyl,

(V) urethanes having the structure

wherein:

each R_1 is independently hydrogen or lower alkyl, each R_2 independently is an alkyl, aryl, or arylalkyl group

having 1 to 18 carbon atoms; $R_3 \ {\rm is\ an\ alkylo\ r\ alkylo\ xy\ chain\ having\ up\ to\ about\ 100}$ atoms in the chain, which chain may contain aryl substituents;

X is O, S, N, or P; and v is 0 to 50.

(VI) aromatic moieties having the structure:

where

each Ar is a monosubstituted, disubstituted or trisubstituted aromatic or heteroaromatic ring having in the range of 3 up to about 10 carbon stores.

n is 1 up to about 50, and

Z is selected from:

straight or branched chain alkyl, alkylene, oxyalkylene, alkenyl, alkonylene, oxyalkenylene, ester, or polyester, optionally containing substituents selected from hydroxy, alkoxy, carboxy, nitrile, cycloalkyl or cycloalkenyl,

siloxanes having the structure: $-(CR_2)_{m'}-[Si(R')_2-O]_{q'}-Si(R')_2-(CR_2)_{m'}$

wherein

each R is independently defined as above, and each R' is independently selected from hydrogen, lower alkyl or aryl, m' falls in the range of 1 up to 10, n' falls in the range of 1 up to 10, and q' falls in the range of 1 up to 50, polyslkylene oxides having the structure:

wherein each R is independently as defined above, r falls in the range of 1 up to 10, s falls in the range of 1 up to 10, and q' is as defined above,

aromatic mojeties having the structure:

-[(CR2),-O-]q-(CR2);-



wherein each R is independently as defined above, t falls in the range of 2 up to 10, u is 1, 2 or 3, and Ar is as defined above, as well as mixtures of any two or more thereof.

- (Original) The adhesive composition according to claim 1, wherein said cure initiator is a free-radical cure initiator.
- (Original) The adhesive composition according to claim 14, wherein said freeradical cure initiator is a member selected from the group consisting of peroxy ester, peroxy carbonate, hydroperoxide, alky/peroxide, ary/peroxide, or azo compound.
- 16. (Original) An adhesive composition according to claim 1, wherein said composition comprises in the range of about 1 wt% up to about 5 wt% at least one malaimide-containing monomer, in the range of about 0.2 wt% up to about 2.0 wt% at least one cure initiation, and in the range of about 1 wt% up to about 95 wt% at least one spacer constructed from one or more crashic polymers.
- 17. (Original) An adhesive composition according to claim 16, wherein said composition comprise in the range of about 1 wt% up to about 50 wt% at least one spacer constructed from one or more organic polymers.
- 18. (Original) An adhesive composition according to claim 17, wherein said composition comprises in the range of about 1 wt% up to about 10 wt% at least one spacer constructed from one or more organic polymers.
- (Original) An adhesive composition according to claim 1, further comprising at least one coupling agent.

- (Original) An adhesive composition according to claim 1, further comprising at least one filler different from the spacer constructed from one or more organic polymers.
- (Original) An adhesive composition according to claim 20, wherein said filler is conductive.
- (Original) An adhesive composition according to claim 20, wherein said filler is electrically conductive.
- (Original) An adhesive composition according to claim 20, wherein said filler is thermally conductive.
- (Original) An adhesive composition according to claim 20, wherein said filler is non-conductive.
- (Original) An adhesive composition according to claim 20, wherein said filler is a perfluorinated hydrocarbon polymer.
- (Original) An adhesive composition according to claim 20, wherein said filler is present in the range of about 1 wt % up to about 95 wt%.
- 27. (Original) An adhesive composition comprising in the range of about 1 wt % up to about 52 wt% at least one maleimide-containing monomer, in the range of about 0.2 wt % up to about 2.0 wt % at least one cure initiator, in the range of about 0.5 wt % up to about 5.0 wt % at least one coupling agent, in the range of about 1 wt % up to about 95 wt% at least one filler, and in the range of about 1 wt% up to about 50 wt% spacer constructed from one or more organic polymers.

- 28. (Original) A method for creating a substantially uniform bond line between a device and as wherate, said method comprising subjecting a sufficient quantity of an adhosive formulation according to claim 1 positioned between said substrate and said dovice to conditions satishe to cue each adhesive formulation, wherein said spacers control bond line thickness between said device can ask of tuberties.
 - (Original) The method according to claim 28, wherein said bond line thickness is determined by the size of said spacers.
 - (Original) The method according to claim 28, wherein said device is a semiconductor die.
 - 31. (Original) A method for controlling achievier gap thickness between a device and a robustne, said method comprising subjecting a sufficient quantity of an adhesive formulation according to claim I positioned between said substrate and said device to conditions suitable to ourse said adhesive formulation, wherein said spacers control adhesive gap thickness between said device and said substrate.
- 32. (Original) A method for maintaining planarity across an adhesive bond line, said method comprising subjecting a sufficient quantity of an adhesive formulation according to claim 1 positioned between a substrate and a device to conditions suitable to cure said adhesive formulation, wherein said spacers maintain planarity across the bond line between said device and said substrate.
- (Original) The method according to claim 31, wherein said device is a semiconductor die.

- 34. (Original) A method for creating substantially uniform bond lines between at least two semiconductor dice attached to a substrate in a stacked arrangement, said method comprising subjecting a sufficient quantity of an adhesive formulation according to claim 1 positioned between said substrate and each of said dice to conditions suitable to cure said adhesive formulation.
- 35. (Original) A method for adhesively attaching at least two emiconductor does to a substrate in a stacked arrangement without the need for a spacer die, said method comprising subjecting a sufficient quantity of an adhesive formulation according to claim I positioned between said substrate and each of said dice to conditions suitable to cure said adhesive formulation.
- 36. (Original) A method for controlling bond line thickness between semiconductor dice in a assembly occuprising a plurality of semiconductor dice in a sasembly occuprising a plurality of semiconductor dice in a stacked arrangement, said method comprising subjecting a sufficient quantity of an adhesive formulation according to claim 1 positioned between each of said dice to conditions suitable to cure said adhesive formulation.
- (Original) An assembly comprising a first article adhered to a second article by a cured aliquot of the adhesive composition according to claim 1.
- 38. (Currently amended). A-bond-line-lin-un-assembly-wherein-sold An assembly comprises geometricing at least one semiconductor die, at least one substrate, and an adhetive composition positionsed forming a bond ling therebetween, wherein the thickness of said bond line is determined by a plurality of spacers in said atthesive formulation.
- (Currently amended) A-bond-line An assembly according to claim 38, wherein the thickness of said bond line is in the range of about 3 mils up to about 6 mils.

- 40. (Currently amended) An adhesive composition according to claim 1 comprising at least one maletimide-contribute monomer, optionally at least one cure initiator, and a plurality of spacers constructed from one or more organic polymers, wherein said spacers constructed from one or more organic polymers include at least one reactive moiety.
- (Original) A die-attach paste comprising an adhesive composition according to claim 1, and optionally a filler different from said spacers constructed from one or more organic polymers.
- 42. (Original) An assembly comprising a substrate and plurality of semiconductor dice positioned on asid substrate in a stacked arrangement, wherein each of said semiconductor dice is adhered to either the substrate or another die by a cured aliquot of the adhesive composition according to claim 1.
- 43. (New) An adhesive composition comprising at least one maletmide-containing monomer, optionally at least one cure initiator, and a plurality of spacers constructed from one or more organic polymers, wherein said spacers have a particle size in the range of about 0.02 mils up to about 25 mils.
- 44. (New) An adhesive composition comprising at least one maleimide-containing monomer, optionally at least one cure initiator, and a plantily of spacers constructed from one or more organic polymers, wherein said organic polymers are polymerization or copylmerization. products of α-olefins, (meth)acrylates, vinyl esters, acrylamides, or acrylonitrites.